



US Army Corps  
of Engineers  
Alaska District

# PUBLIC NOTICE OF APPLICATION FOR PERMIT

Regulatory Branch (1145)  
Post Office Box 6898  
Elmendorf AFB, Alaska 99506-0898

PUBLIC NOTICE DATE: 8 August 2006

EXPIRATION DATE: 6 September 2006

REFERENCE NUMBER: POA-2005-1295-Q

WATERWAY NUMBER: Harrison Bay, Beaufort Sea

Interested parties are hereby notified that an application has been received for a Department of the Army permit for work in wetlands and navigable waters as described below and shown on the attached Sheets. Note: Portions of the work described below were previously authorized via Department of the Army Section 10 and 404 permit POA-2005-1295, dated February 2, 2006. The project as permitted on February 2, 2006 was described in Corps Public Notice POA-2005-1295, dated August 25, 2005. The applicant is requesting authorization to modify some of the work previously permitted and requests authorization to complete new (i.e. currently un-authorized) work.

**APPLICANT:** Pioneer Natural Resources Alaska, Inc., 700 G Street, Suite 600, Anchorage, AK 99501. The proposed projects point of contact is Mr. J. Patrick Foley (907)-343-2110.

**LOCATION:** The onshore processing pad expansion would be located at T. 12 N., R. 8 E., Section 12, Latitude 70.4137 N., Longitude 150.0205 W., the pigging pad/road expansion would be located at T. 12 N., R. 9 E., Section 7, Latitude 70.4074 N., Longitude 149.9411 W., the sub-sea buried flowline, VSM mounted flowline and 8-inch water injection line cross T. 13 N., R. 7 E., Sections 11, 12, 13, T. 13 N., R. 8 E., Sections 18, 19, 20, 28, 29, 33, T. 13 N., R. 9 E., Sections 9 and 16, T. 12 N., R. 8 E., Sections 2, 3, 11, and 12, T. 12 N., R. 9 E., Section 7, T. 11 N., R. 10 E., Section 9. All sections listed above are within the Umiat Meridian. The off-shore/on-shore pipeline transition point is located at section 33, T. 13 N., R. 8 E., Umiat Meridian, Latitude 70° 26' 7.5" N., Longitude 150° 4' 58.9" W. Mine Site E, the proposed material source for gravel, is located approximately 8 miles east northeast of the proposed on-shore processing pad at section 24, T. 13 N., R. 9 E., Latitude 70.4645° N., Longitude 150.7039° W., Umiat Meridian.

**WORK (invoking Corps jurisdiction under Section 10 of the Rivers and Harbors Act of 1899 and the Clean Water Act {Section 404}):**

Previously authorized work that the applicant proposes to modify:

- The applicant proposes a modification of the flowline trench from the single trench permitted to three adjacent trenches. The primary trench would contain the flowline bundle and a fiber optic cable, the second trench would contain a power cable and a fiber optic cable, and the third trench would

carry two power cables. Configurations and dimensions of the trenches are shown on Sheet 11.

- The applicant proposes to modify the placement of spoils excavated (e.g. backfill) from the flowline trench in one of two ways. The original authorization described above approved the placement of trench spoils (backfill) on top of the footprint of the excavated area with a resulting mound of 2 feet or less to preclude navigational impacts. The applicant currently proposes to either mound the backfill 3 feet high in areas with at least 5.5 feet of water depth (material would be trucked over the ice from the excavation to disposal sites for deposition) or excavate ice overlying and on either side of the trench 55 to 104 feet in width. Excavated material in excess of the amount required to backfill the trench would be placed on the adjacent seafloor to a depth not exceeding two feet. See Sheet 11.
- The applicant proposes to modify the permitted flowline routes between the on-shore flowline transition (coastline) and the OTP (On-shore tie-in pad). See Sheets 3, 5 and 6.
- The applicant proposes to install 32 - 40 thermo-siphons at the off-shore to on-shore flowline transition (the number and height of thermo-siphons at this location was previously unknown). Installation will occur in the previously authorized footprint.

New (i.e. previously un-authorized work) the applicant proposes to complete:

- Installation of an additional 120 Vertical Support Members (VSM's) (in addition to the 280 already authorized) to support an 8-inch water injection flowline tie-in to KRU DS-3A. Installation will result in approximately 500 cubic yards of fill/backfill within a 0.05 acre footprint.

**Table 1 Proposed VSM: Details and Quantities**

VSM Segments	Diameter of VSM	Quantity
Segment 1 (Shoreline Transition Area to DS-3H)	12 inch	2
	16 inch	42
Segment 2 (OTP Tie-in)	12 inch	36
	16 inch	12
Segment 3 (Pig Launcher Pad)	12 inch	0
	16 inch	28
Total VSM's by Diameter	12 inch	38
	16 inch	82
<b>Total VSM's Required for Proposed Alignment</b>		<b>120</b>

- Construction of a pig launcher pad and road upgrade to support the water injection flowline tie-in at DS-3A; a 0.43 acre footprint, approximately 2,200 cubic yard fill for the pig launcher pad. The pad will be constructed at the end of the present access road and extending north from the spine road to the valve access area west of the existing DS-3A road. Nominally the pad will be 5 feet thick. A 0.6 acre footprint for the road upgrade. The road will be upgraded from 22 feet to 30 feet from shoulder to shoulder with 2:1 side slopes. Resulting in an additional 0.6 acre footprint and approximately 3,000 cubic yard fill. See Sheet's 5, 6 and 7.
- Construction of a 5-acre staging pad abutting the OTP (e.g. expansion of the February 2006 permitted OTP by 5 acres). The pad will be nominally 5 feet thick with 2:1 side slopes and result in approximately 38,845 cubic yards of fill. See Sheet's 3, 9 and 10.

**WORK that does not (based on information available to the Corps) invoke Corps jurisdiction under Section 10 of the Rivers and Harbors Act of 1899 and the Clean Water Act (Section 404):**

- Material and equipment storage at 12-acre and Ugnu pads;
- Installation of permanent communications towers at the ODS and OTP;
- Installation of two camps and camp discharges at the proposed 5 acre pad expansion;
- Construction of a hangar and warm-up shack at Kuparuk Industrial Camp (KIC) to support helicopter operations.

The attached "Pioneer Oooguruk Development Gravel Use Table" with a revised date of June 30, 2006, depicts the quantities of fill material placed under the original authorization after several previous modifications. The attached "Gravel Use Table for Proposed 5-acre Pad, Pig Launcher Pad, and Road Expansion, and New VSM'S" dated August 7, 2006 reflects the acres impacted by the placement of proposed fill and the volume of in-situ materials excavated and placed to complete proposed work.

**PURPOSE:** The purposes of Pioneer's proposed work is to install infrastructure to support the recovery and processing of hydrocarbons (e.g. infrastructure placement and trenching), build a construction pad (e.g. 5-acre and pigging pads), provide access to oil and gas infrastructure (e.g. road expansion).

**ADDITIONAL INFORMATION:** A non-inclusive list of the applicant's planned construction sequencing is shown in the table below.

#### **Schedule of Activities**

<b>ACTIVITY</b>	<b>SCHEDULE (Activity Start Dates)</b>
Pile driving for pig launcher module.	September - October 2006
Installation of 8-inch water injection flowline tie-in to KRU Drillsite DS-3A; Construction of pig launcher pad and road expansion.	January 2007
Construction of hangar and warm-up shack at KIC to support helicopter operations.	July 2006
Construction of 5-acre staging pad adjacent to the OTP.	September 2006
Materials and equipment storage at 12-acre and Ugnu pads.	July 2006
Installation of a permanent communications tower at OTP.	September 2006
Installation of a permanent communications tower at ODS.	October 2006
Installation of ODS camp.	September 2006
Installation of flowline construction camp.	November 2006
Installation of thermo siphons at facilities.	September 2006
Installation of flowlines and cables.	January 2006

**MITIGATION:** The applicant is compiling a list of actions that may (upon Corps review and approval) be considered mitigation for some aspects of the proposed work.

**WATER QUALITY CERTIFICATION:** A permit for the described work will not be issued until a certification or waiver of certification as required under Section 401 of the Clean Water Act (Public Law 95-217), has been received from the Alaska Department of Environmental Conservation.

**COASTAL ZONE MANAGEMENT ACT CERTIFICATION:** Section 307(c)(3) of the Coastal Zone, Management Act of 1972, as amended by 16 U.S.C. 1456(c)(3), requires the applicant to certify that the described activity affecting land or water uses in the Coastal Zone complies with the Alaska Coastal Management Program. A permit will not be issued until the Office of Project Management and Permitting, Department of Natural Resources has concurred with the applicant's certification.

**PUBLIC HEARING:** Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, reasons for holding a public hearing. Note: The Corps determines if a Public Hearing will be held by determining what if any new or additional information (that may substantially affect the permit applications review) might be gained from a public hearing. If the Corps is not able to determine that substantial new or additional required information may be gained the Corps may choose to conduct a public meeting in-lieu of a public hearing or conduct neither. This determination is necessary due to the taxpayer funds expended to conduct public hearings and the application processing time lost during hearing preparation and completion.

**CULTURAL RESOURCES:** The latest published version of the Alaska Heritage Resources Survey (AHRs) has been consulted for the presence or absence of historic properties, including those listed in or eligible for inclusion in the National Register of Historic Places. There are no known archaeological sites or historic properties within the proposed permit area (includes temporary and permanent impacts). Consultation of the AHRs constitutes the extent of cultural resource investigations by the District Engineer at this time. This application is being coordinated with SHPO. Any comments SHPO may have concerning presently unknown archeological or historic data that may be lost or destroyed by work under the requested permit will be considered in our final assessment of the described work.

**TRIBAL CONSULTATION:** The Alaska District fully supports tribal self-governance and government-to-government relations between the Federal government and Federally recognized Tribes. This notice invites participation by agencies, Tribes, and members of the public in the Federal decision-making process. In addition, Tribes with protected rights or resources that could be significantly affected by a proposed Federal action (e.g., a permit decision) have the right to consult with the Alaska District on a government-to-government basis. Views of each Tribe regarding protected rights and resources will be accorded due consideration in this process. This Public Notice serves as notification to the Tribes within the area potentially affected by the proposed work and invites their participation in the Federal decision-making process regarding the protected Tribal right or resource. Consultation may be initiated by the affected Tribe upon written request to the District Engineer during the public comment period.

**ENDANGERED SPECIES:** The project area is within the known or historic range of the spectacled eider (*Somateria fischeri*), Steller's eiders (*Polysticta stelleri*), bowhead whale (*Balaena mysticetus*) and Eskimo curlew (*Numenius borealis*).

Note: because the Eskimo curlew (*Numenius borealis*) is likely extirpated it is not addressed further in the applicant's documents.

The Corps preliminary effects determinations are: the described activity is not likely to adversely affect threatened or endangered species listed above (exception: the Eskimo curlew [*Numenius borealis*]), or their designated critical habitat, under the Endangered Species Act of 1973 (87 Stat. 844). And, the described activity is expected to have no effect on the Eskimo curlew (*Numenius borealis*).

The applicants permit application is being coordinated with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Because the Section 7 ESA Consultations conducted for Corps Permit POA-2005-1295 addressed the majority

of the work contained within this public notice, the Corps will request the re-initiation of consultation for those aspects of the proposed project. The Corps will request ESA Section 7 consultation for any previously un-permitted work the applicant proposes. Any comments the Services (USFWS & NMFS) may have concerning endangered or threatened wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

**ESSENTIAL FISH HABITAT:** The proposed work is being evaluated for possible effects to Essential Fish Habitat (EFH) pursuant to the Magnuson Stevens Fishery Conservation and Management Act of 1996 (MSFCMA), 16 U.S.C. et seq and associated federal regulations found at 50 CFR 600 Subpart K. The Alaska District includes areas of EFH as Fishery Management Plans. We have reviewed the January 20, 1999, North Pacific Fishery Management Council's Environmental Assessment to locate EFH area as identified by the National Marine Fisheries Service (NMFS).

We have determined that the described activity within the proposed area will not adversely affect EFH, including anadromous fish and federally managed fishery resources.

**SPECIAL AREA DESIGNATION:** The off-shore flowline is immediately west (e.g. outside) the Oooguruk Unit, the on-shore tie-in pad and on-shore portion of the flowline are within the Kuparuk River Unit, on land managed by the State of Alaska Department of Natural Resources.

**EVALUATION:** The decision whether to issue a permit will be based on an evaluation of the probable impacts including cumulative impacts of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts, which the proposed activity may have on the public interest, requires a careful weighing of all the factors that become relevant in each particular case. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. The decision whether to authorize a proposal, and if so, the conditions under which it will be allowed to occur, are therefore determined by the outcome of the general balancing process. That decision should reflect the national concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving 404 discharges, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria (see Sections 320.2 and 320.3), a permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the described work, with the reference number, should reach this office no later than the expiration date of this Public Notice to become part of the record and be considered in the decision. Please contact Mr. Keith Gordon at (907) 753-2716, toll free from within Alaska at (800) 478-2712, or by email at keith.q.gordon@poa02.usace.army.mil if further information is desired concerning this notice.

**AUTHORITY:** This permit will be issued or denied under the following authorities:

(X) Perform work in or affecting navigable waters of the United States - Section 10 Rivers and Harbors Act 1899 (33 U.S.C. 403).

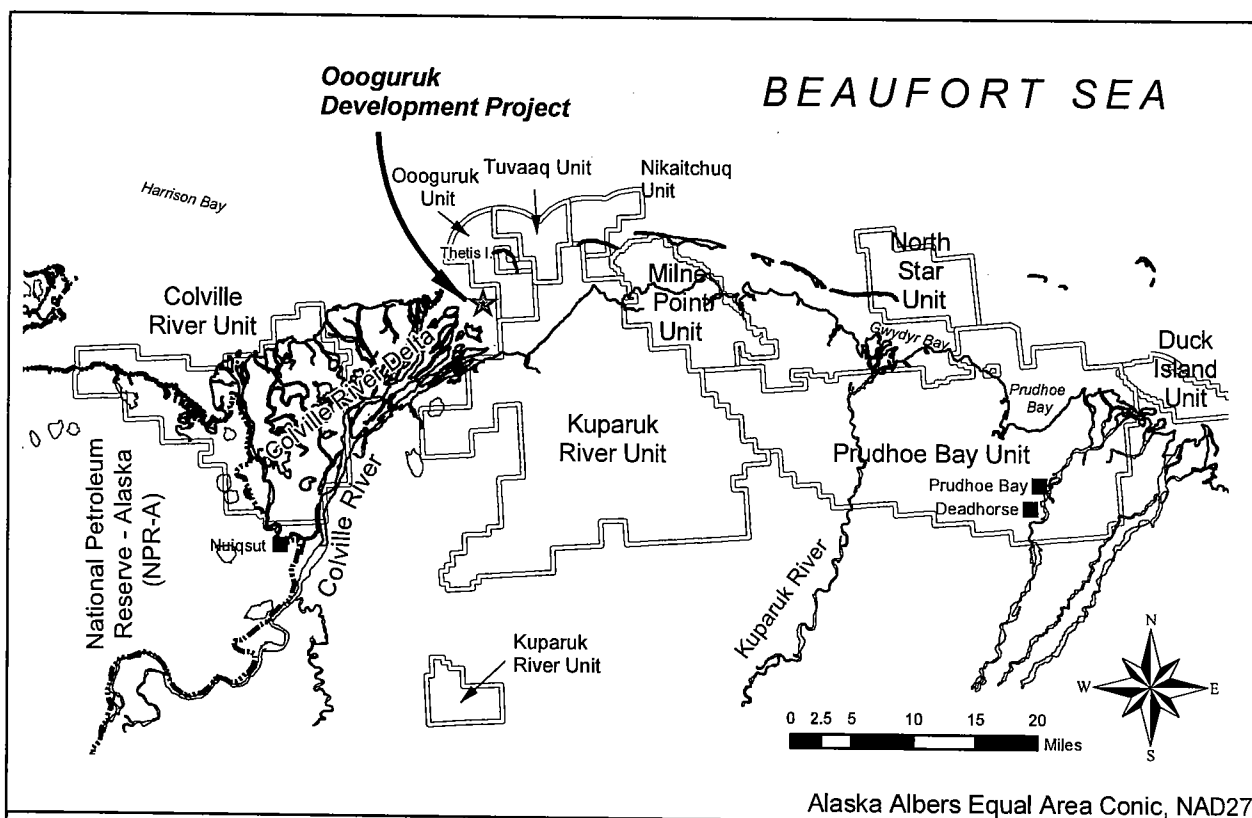
(X) Discharge dredged or fill material into waters of the United States - Section 404 Clean Water Act (33 U.S.C. 1344). Therefore, our public interest review will consider the guidelines set forth under Section 404(b) of the Clean Water Act (40 CFR 230).

( ) Transport dredged material for the purpose of dumping it into ocean waters - Section 103 Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413). Therefore, our public interest review will consider the criteria established under authority of Section 102(a) of the Marine Protection, Research and Sanctuaries Act of 1972, as amended (40 CFR Parts 220 to 229), as appropriate.

The applicant's plans, a Notice of Application for Certification of Consistency with the Alaska Coastal Management Program, and a Notice of Application for State Water Quality Certification are attached to this Public Notice.

District Engineer  
U.S. Army, Corps of Engineers

Attachments



**Oooguruk Drill Site (ODS)**



**Oil & Gas Unit**



**National Petroleum Reserve Alaska (NPR-A)**

**PURPOSE:** To Produce Hydrocarbon Resources.

**PROJECT LOCATION:** Vicinity of the Colville River and Thetis Island, 26 miles northeast of Nuiqsut, 47 miles northwest of Deadhorse, and 8.1 miles northwest of Pad DS-3H (Kuparuk River Unit). North Slope Borough, Beaufort Sea and tundra wetlands.

**LATITUDE/LONGITUDE (NAD27):** 150° 14.8' W 70° 29.75' N

**PLSS:** Township 13N, Range 7E, sections 11, 12, 13; Township 13N, Range 8E, sections 18, 19, 20, 28, 29, and 33; and Township 12 N, Range 8E, sections 2, 3, 11, and 12, Umiat Meridian.

**ADJACENT OWNERS:**

-ENI Petroleum 1201 Louisiana, Suite 3500, Houston TX 77002

-ConocoPhillips Alaska, Inc., PO Box 100360, Anchorage, AK 99510-0360.

-BP Exploration (Alaska), Inc., PO Box 196612, Anchorage, AK 99519-6612.

-UNOCAL, 909 West 9th Avenue, Anchorage, AK 99501.

-ExxonMobil Alaska, PO Box 2305, Houston, Texas 77252-2305.

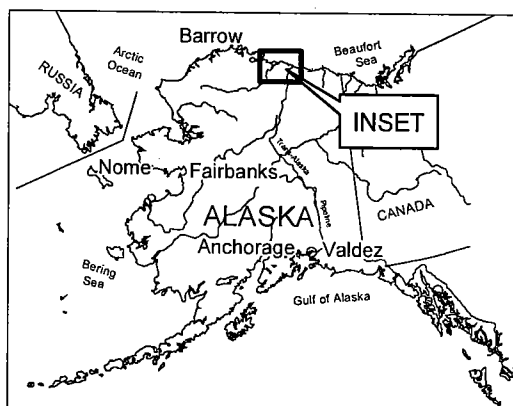
-Anadarko Petroleum Contractors, 3201 C Street, Suite 603, Anchorage, AK 99503.

-Helmericks, Pouch 340012, Prudhoe Bay, AK 99734.

-Alaska Department of Natural Resources, Commissioner's Office, 550 W. 7th Ave, Suite 1400, Anchorage, AK 99501.

-XTO Energy Inc., 810 Houston Street, Fort Worth, TX 76102-6298.

-Kerr McGee, Corporate Headquarters, 123 Robert S. Kerr Avenue, Oklahoma City, OK 73102.



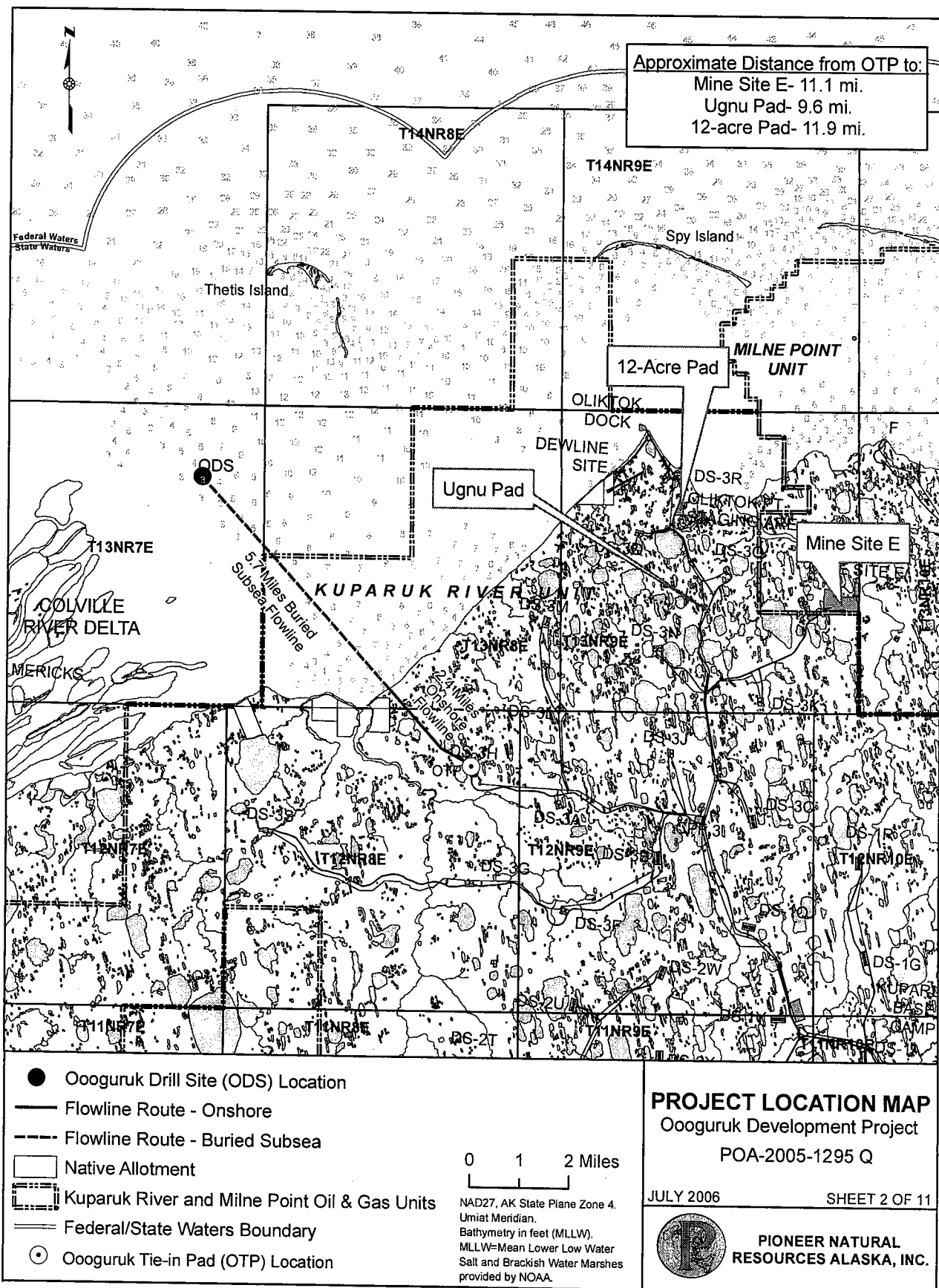
**VICINITY MAP**  
**Oooguruk Development Project**  
**Oooguruk Offshore Drillsite (ODS)**  
**Offshore and Onshore Flowlines**  
**Oooguruk Tie-in Pad (OTP)**  
**POA 2005-1295-Q**

JULY 2006

SHEET 1 OF 11

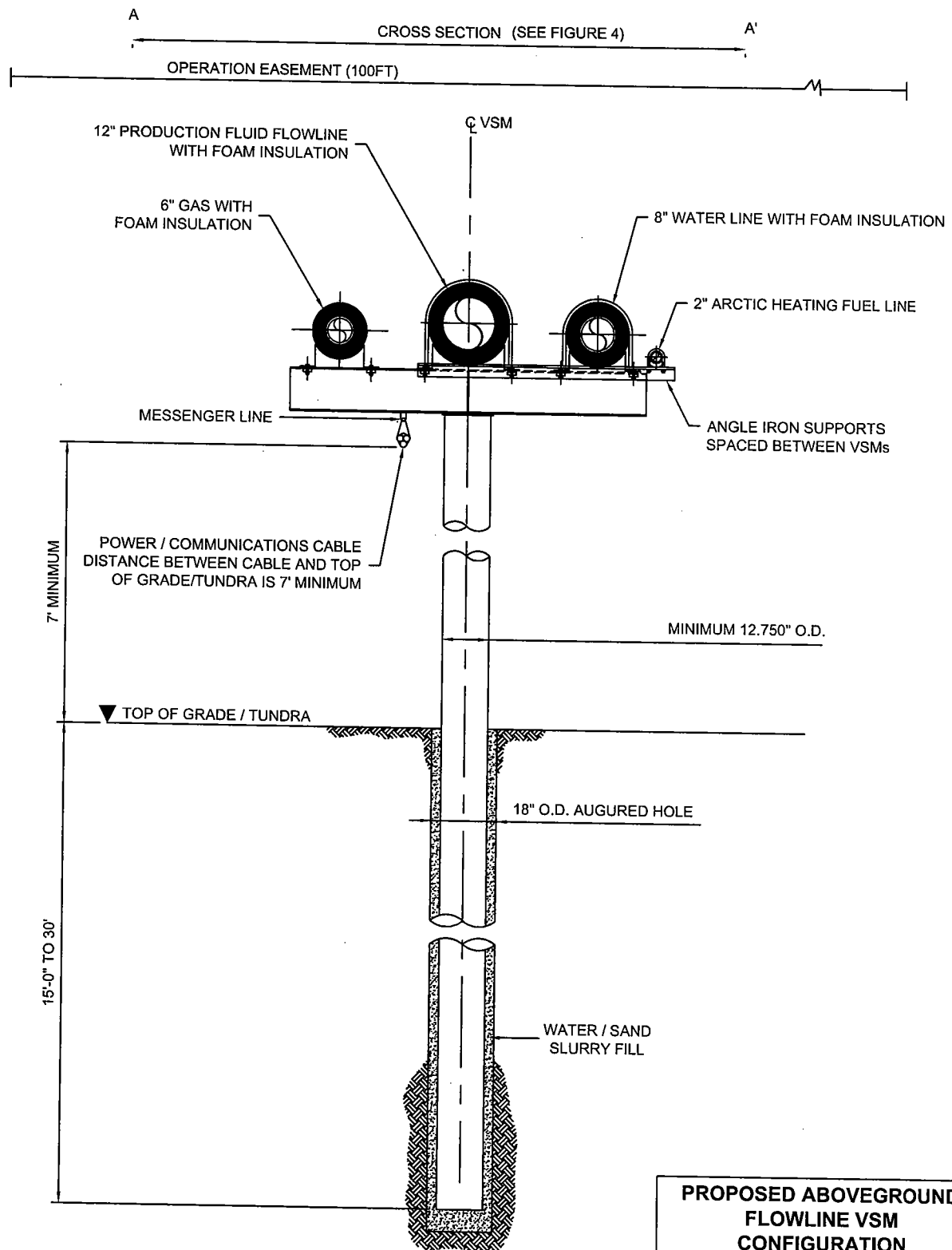


**PIONEER NATURAL RESOURCES ALASKA, INC.**









NOTE:

1. SINGLE PILE TIVAR TYPE VSM SHOWN.  
MULTI-PILE AND ANCHOR TYPE VSMs  
NOT SHOWN.

**PROPOSED ABOVEGROUND  
FLOWLINE VSM  
CONFIGURATION**  
Oooguruk Development Project  
File No. POA-2005-1295Q

JULY 2006

SHEET 4 OF 11

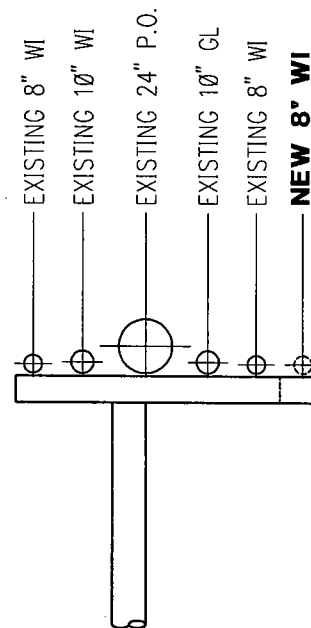
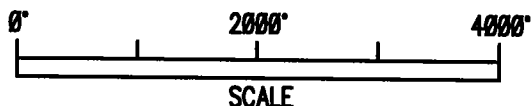


PIONEER NATURAL  
RESOURCES ALASKA, INC.

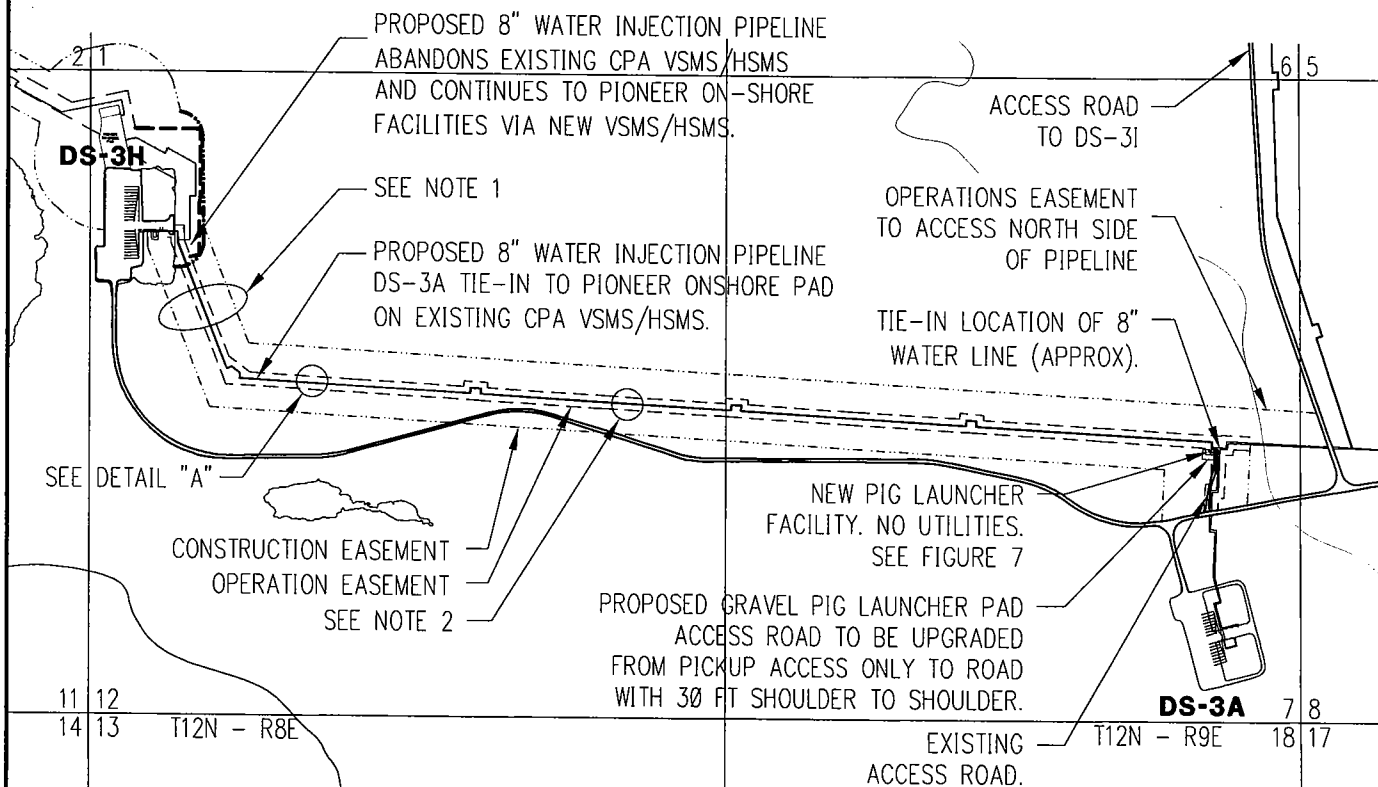
REV	DATE	DESCRIPTION	BY	CK	APP	REV	DATE	DESCRIPTION	BY	CK	APP
D	07/06	RE-ISSUED FOR PERMIT	MC	DR							

**NOTES:**

1. CONSTRUCTION EASEMENT IS 500 FEET WIDE,  
250 FEET EITHER SIDE OF  $\ell$
2. OPERATION EASEMENT IS 100 FEET WIDE,  
50 FEET EITHER SIDE OF  $\ell$



DETAIL 'A'  
NOT TO SCALE  
OOOGURUK PAD  
(LOOKING WEST)



**NANAColt**  
Engineering, LLC



PIONEER NATURAL  
RESOURCES ALASKA, INC.

TITLE OF DRAWING:

OOOGURUK DEVELOPMENT PROJECT  
PROPOSED WATER INJECTION FLOWLINE  
FIGURE 5  
POA-2005-1295-Q

PROJECT ID:  
06PNR1227

DATE:  
07/27/06

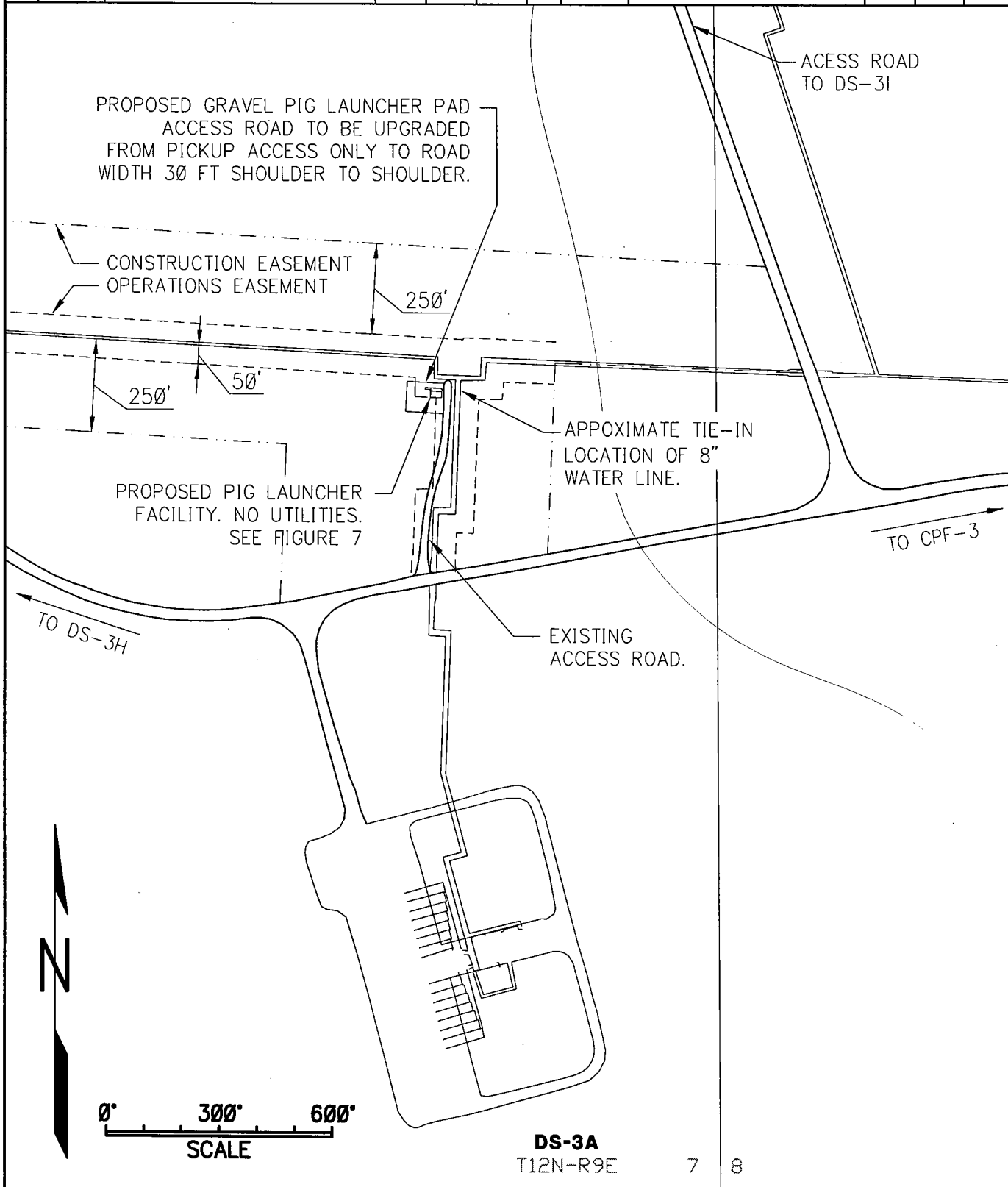
SCALE:  
SEE SCALE BAR


DRAWING NO:  
SK-1227-1002

SHEET:  
005 OF 011

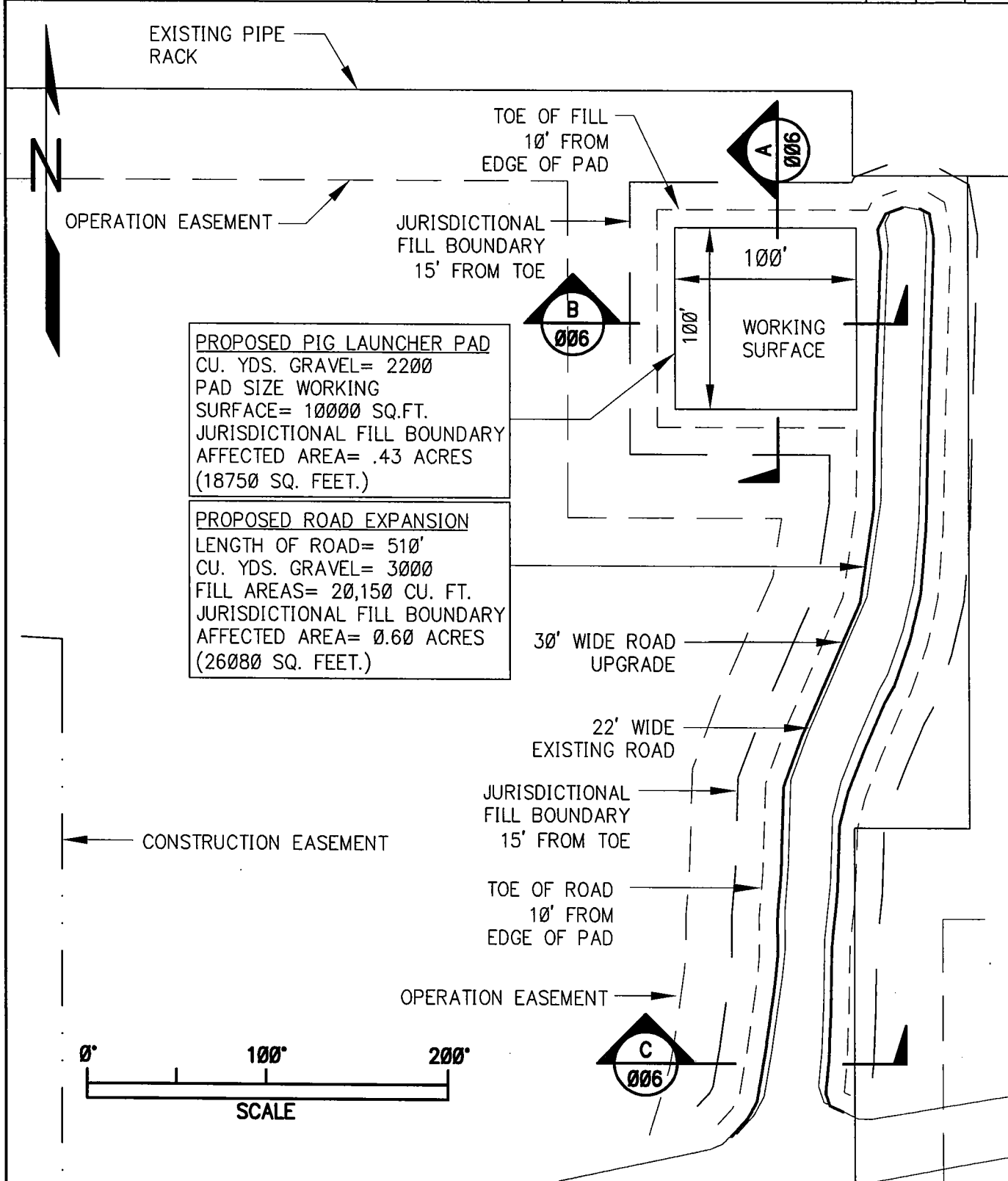
REV:  
D


REV	DATE	DESCRIPTION	BY	CK	APP	REV	DATE	DESCRIPTION	BY	CK	APP
C	07/06	RE-ISSUED FOR PERMIT	MC	DR							



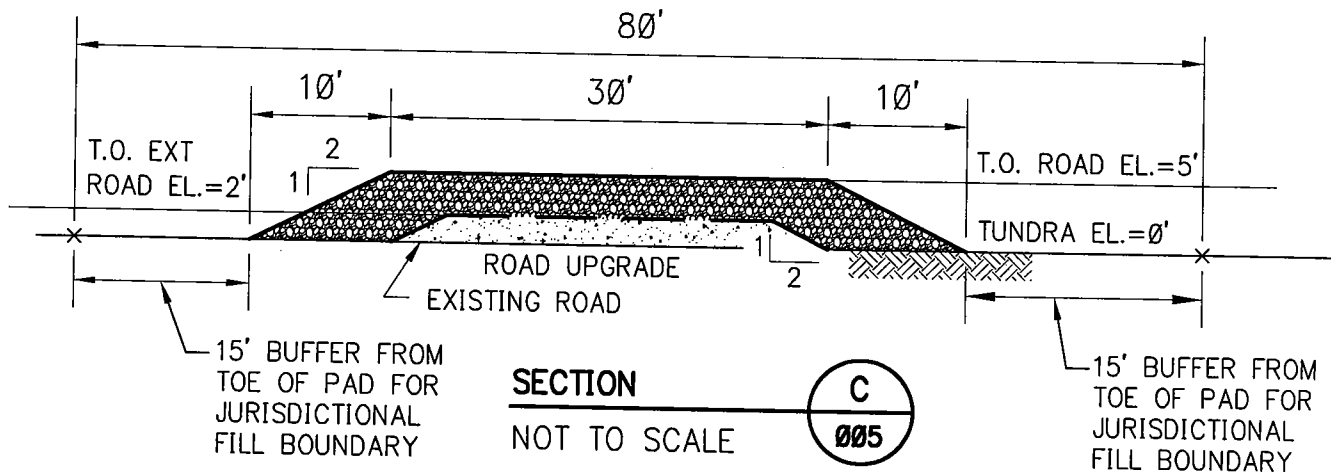
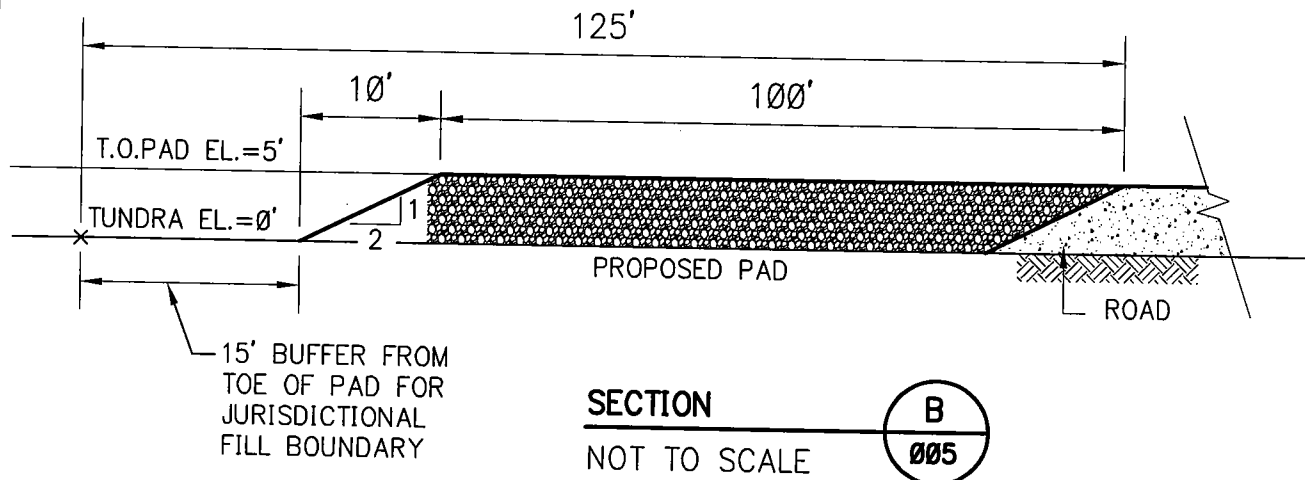
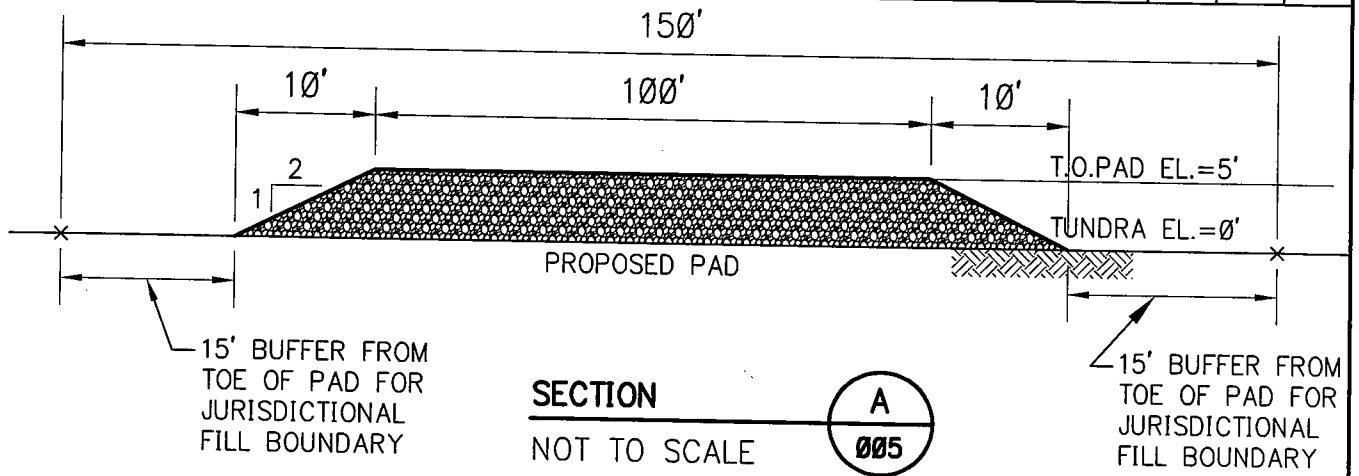
<b>NANACoIt</b> Engineering, LLC		 PIONEER NATURAL RESOURCES ALASKA, INC.		TITLE OF DRAWING: OOGURUK DEVELOPMENT PROJECT PROPOSED PIG LAUNCHER PAD & EXPANSION FIGURE 6 POA-2005-1295-Q							
PROJECT ID: 06PNR1227	DATE: 07/27/06	SCALE: SEE SCALE BAR	DRAWING NO: SK-1227-1003	SHEET: 006 OF 011	REV: C						

REV	DATE	DESCRIPTION	BY	CK	APP	REV	DATE	DESCRIPTION	BY	CK	APP
B	06/06	RE-ISSUED FOR PERMIT	MC	DR	RM						



<b>NANACoIt</b> Engineering, LLC		 PIONEER NATURAL RESOURCES ALASKA, INC.		TITLE OF DRAWING: 000GURUK DEVELOPMENT PROJECT PROPOSED PIG LAUNCHER PAD AND ROAD EXPANSION FIGURE 7 POA-2005-1295-Q							
PROJECT ID: 06PNR1227	DATE: 07/27/06	SCALE: SEE SCALE BAR	DRAWING NO: SK-PNR-NCE-1227-005	SHEET: 007 OF 011	REV: B						

REV	DATE	DESCRIPTION	BY	CK	APP	REV	DATE	DESCRIPTION	BY	CK	APP
C	07/06	RE-ISSUED FOR PERMIT	MC	DR							



**NANAColt**  
Engineering, LLC



PIONEER NATURAL  
RESOURCES ALASKA, INC.

TITLE OF DRAWING:  
QOOGURUK DEVELOPMENT PROJECT  
PROPOSED PIG LAUNCHER AND ROAD EXPANSION SECTIONS  
FIGURE 8  
POA-2005-1295-Q

PROJECT ID:  
06PNR1227

DATE:  
07/06

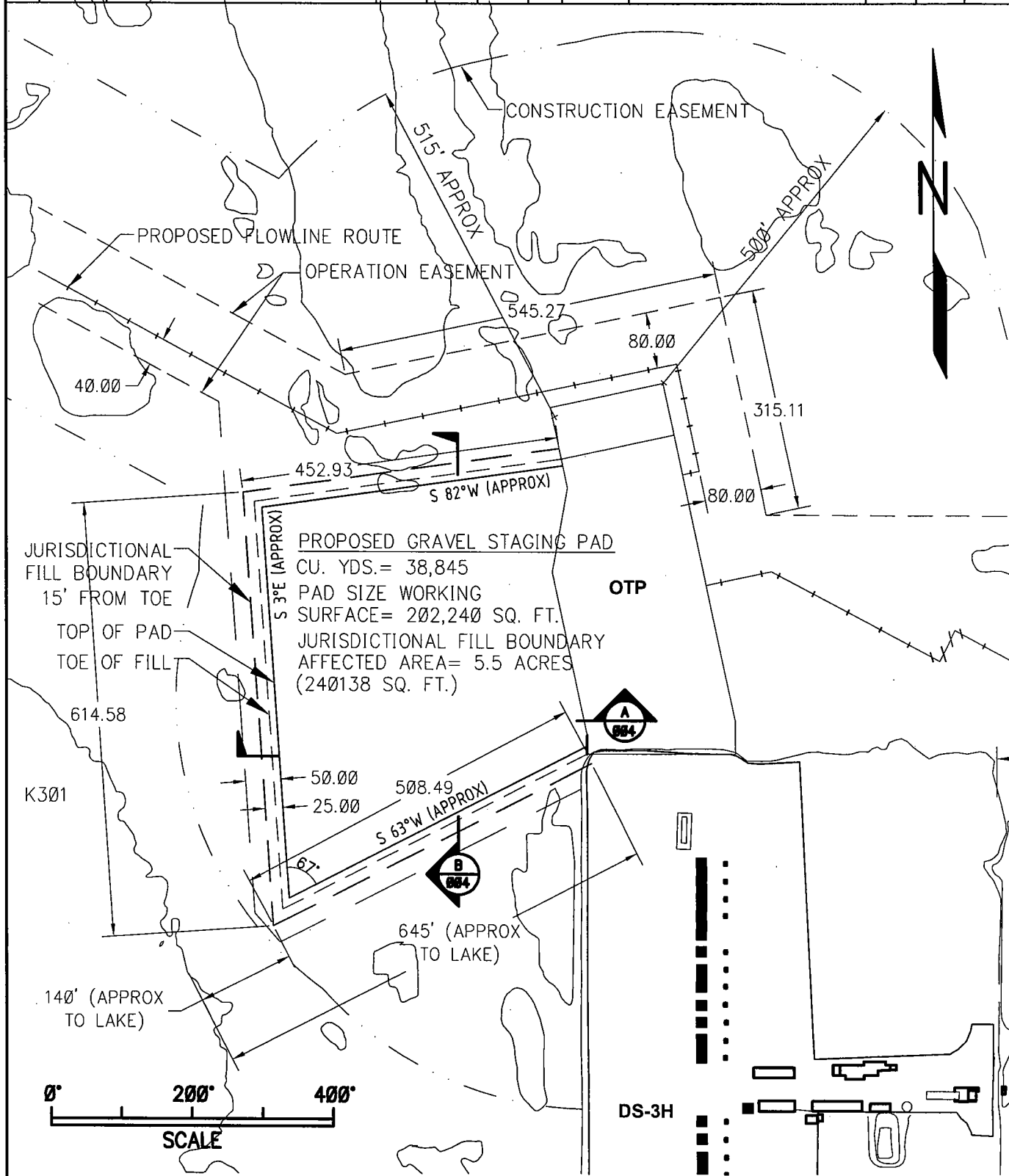
SCALE:  
NOT TO SCALE



DRAWING NO:  
SK-PNR-NCE-1227-006

SHEET:  
008 OF 011

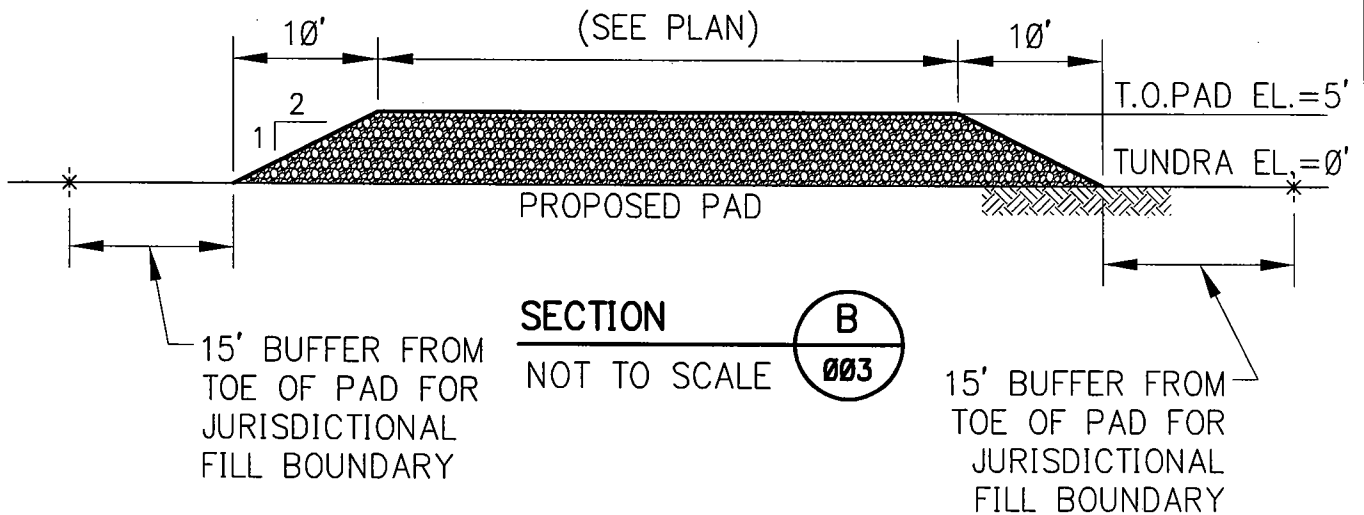
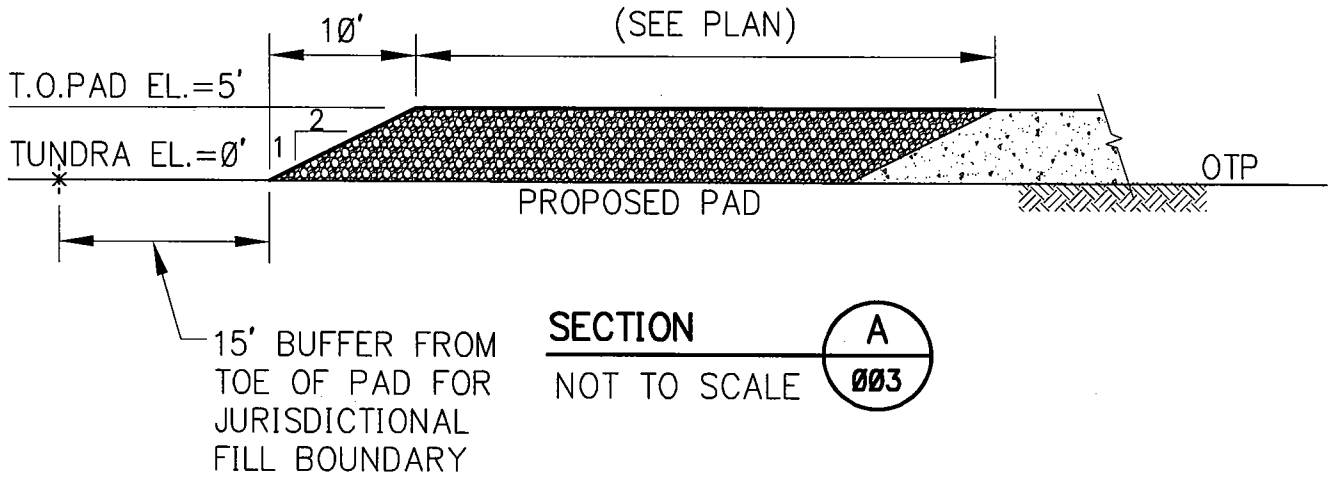
REV:  
C

REV	DATE	DESCRIPTION	BY	CK	APP	REV	DATE	DESCRIPTION	BY	CK	APP
D	07/06	RE-ISSUED FOR PERMIT	MC	DR							



		 <b>PIONEER NATURAL RESOURCES ALASKA, INC.</b>		TITLE OF DRAWING:  OOOGURUK DEVELOPMENT PROJECT PROPOSED 5-ACRE STAGING PAD FIGURE 9 POA-2005-1295-Q		
PROJECT ID: 06PNR1227		DATE: 07/27/06	SCALE: SEE SCALE BAR	DRAWING NO: SK-PNR-NCE-1227-003	SHEET: 009 OF 011	REV: D

REV	DATE	DESCRIPTION	BY	CK	APP	REV	DATE	DESCRIPTION	BY	CK	APP
B	07/06	RE-ISSUED FOR PERMIT	MC	DR							



**NANAColt**  
Engineering, LLC



PIONEER NATURAL  
RESOURCES ALASKA, INC.

TITLE OF DRAWING:  
QOOGURUK DEVELOPMENT PROJECT  
PROPOSED 5-ACRE STAGING PAD CROSS SECTIONS  
FIGURE 10  
POA-2005-1295-Q

PROJECT ID:  
06PNR1227

DATE:  
07/27/06

SCALE:  
NOT TO SCALE

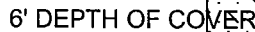
DRAWING NO:  
SK-PNR-NCE-1227-004

SHEET:  
010 OF 011

REV:  
B



NOT TO SCALE



**NOT TO SCALE**

**NOTES**  
BPMSL = BP Mean Sea Level

**PROPOSED FLOWLINE BUNDLE  
OFFSHORE TRENCH  
CROSS-SECTIONS**  
**Oooguruk Development Project**  
**File No. POA-205-1295Q**



**PIONEER NATURAL  
RESOURCES ALASKA, INC.**

Lynx: NSB011.dwg, 06/28/06, R00

PIONEER OOOGURUK DEVELOPMENT

GRAVEL USE TABLE FOR PROPOSED 5-ACRE PAD, PIG LAUNCHER PAD AND ROAD EXPANSION, AND NEW VSMs

8/7/06

Feature	Fill Area (acres)	Fill Volume (cy)	Excavated Volume (cy)
5 Acre Pad	5.5	38,845	N/A
Pig Launcher Pad at KRU DS-3A	0.43	2,200	N/A
Pig Launcher Pad at KRU DS-3A Road Expansion	0.6	3,000	N/A
VSM Slurry	0.05	approximately 500	approximately 500
<b>TOTAL PROJECT PERMANENT FILL</b>	<b>6.6</b>	<b>44,545</b>	<b>500</b>

PIONEER OOGURUK DEVELOPMENT GRAVEL USE TABLE  
February 2, 2006 POA-2005-1295 (REVISED 06-30-06)

Feature	Fill Area (acres)	Fill Volume (cy)	Excavated Volume (cy)
Ooguruk drillsite pad	10.85	360,000	N/A
Slope protection bag fill	Included in drillsite footprint	37,000	N/A
Onshore tie-in pad	2.6	25,000	N/A
<b>Buried Flowline System:</b>			
2 Flowline ROW test trenches sea floor disturbance	1.8 (0.4-0.9 acres each trench)	N/A	11,400 (3,000-5,700 each)
2 Flowline test trenches spoils (fill) placed on ice	1.86-3.55 (total 2 trenches)	11,400 (3,000-5,700 each)	N/A
Thaw stable fill for test trench #1 (modification 3/31/06)		700	
<b>Ooguruk to shore subsea ROW trench</b>	<b>reduced to 40 (permitted as 60 in 02/06)</b>	<b>reduced to 300,000 (permitted as 450,000 in 02/06)</b>	<b>reduced to 300,000 (permitted as 450,000 in 02/06)</b>
Thaw stable fill	Included in ROW footprint	45,000 (contingency channel filling and strudel scour protection)	N/A
Bundle displacement	Included in ROW footprint	N/A	2,700 (included in ROW trench above)
<b>Shoreline Transition:</b>			
Flowline bundle trench	N/A	10,700 (blasted/excavated)	10,700 (material placed on or adjacent to shoreline transition trench after placement of thaw stable fill)
Flowline bundle trench thaw stable fill	0.5	12,500	Included in Mine Site E volume
<b>Other:</b>			
VSM Slurry (Segment 1 permitted 02/06)	0.1	1,000	1,000
Temporary flowline trench material storage on ice	60	Reduced to 300,000 (permitted as 450,000 in 02/06)	N/A
Flowline trench residual spoils temporarily entrained in ice	N/A	Diminimus Amount	N/A
<b>TOTAL FILL VOLUME ESTIMATED FOR PROJECT FROM MINE SITE E, CELL 4</b>		<b>360,000+37,000+ 25,000+45,000+700+ 12,500+1,000 = 481,200 (permitted as 480,500 02/06, mod added 700)</b>	
<b>Mine Site E:</b>			
Mine Site E Cell 4 excavation footprint	20.2 (Cell 4 footprint)	N/A	500,000
Mine Site E Cell 4 Overburden	Included in Cell 3 footprint below	N/A	416,000
Mine Site E Cell 3 Reclamation (modification 3/31/06)	28 (Cell 3 footprint)	416,000+50,000 (Cell 4 overburden placed in Cell 3 for reclamation material)	N/A
Mine Site E Cell 4 thermal barriers - temporary fill	0.6 (Cell 4 thermal barriers)	1,600 (Cell 4 thermal barriers) included in overburden volume above	1600 (Cell 4 thermal barriers) included in overburden volume above
<b>Mine Site E Total</b>	<b>28 + 0.60 = 28.6</b>	<b>466000 (permitted as 416,000 in 02/06, mod added 50,000)</b>	<b>500,000 + 466,000 = 966,000</b>
<b>TOTAL PROJECT TEMPORARY FILL</b>	<b>1.8+3.55+0.5+60+20.2+0.6 = 86.65</b>	<b>300,000</b>	<b>300,000</b>
<b>TOTAL PROJECT PERMANENT FILL</b>	<b>10.85+2.6+40+0.1+28 =81.55 (permitted at 101.55 in 02/06)</b>	<b>11,400+ 300,000+10,700+481,200+466,000 =1,269,300 (permitted at 1,368,600 in 02/06)</b>	<b>11,400 + 10,700 + 1,000 +966,000 = 989,100</b>

# STATE OF ALASKA

OFFICE OF THE GOVERNOR

**DEPARTMENT OF NATURAL RESOURCES  
OFFICE OF PROJECT MANAGEMENT AND PERMITTING**

ALASKA COASTAL ZONE MANAGEMENT  
550 WEST 7<sup>TH</sup> AVENUE, SUITE 1660  
ANCHORAGE, ALASKA 99501-3568

**NOTICE OF APPLICATION  
FOR  
CERTIFICATION OF CONSISTENCY WITH THE  
ALASKA COASTAL MANAGEMENT PROGRAM**

Notice is hereby given that a request is being filed with the Office of Project Management and Permitting for a consistency determination, as provided in Section 307(c)(3) of the Coastal Zone Management Act of 1972, as amended [16 U.S.C. 1456(c)(3)], that the project described in the Corps of Engineers Public Notice No. **POA-2005-1295-Q, Harrison Bay, Beaufort Sea**, will comply with the Alaska Coastal Management Program and that the project will be conducted in a manner consistent with that program.

The Office of Project Management and Permitting requests your comments, particularly on the proposed project's consistency with the affected local coastal district management program. For more information on the consistency review contact OPMP at (907) 269-7470 or (907) 465-3562, or visit the ACMP web site at <http://www.gov.state.ak.us/gdc/Projects/projects.html>.

# STATE OF ALASKA

OFFICE OF THE GOVERNOR

## DEPT. OF ENVIRONMENTAL CONSERVATION

### DIVISION OF WATER

401 Certification Program

Non-Point Source Water Pollution Control Program

## NOTICE OF APPLICATION FOR STATE WATER QUALITY CERTIFICATION

Any applicant for a federal license or permit to conduct an activity that might result in a discharge into navigable waters, in accordance with Section 401 of the Clean Water Act of 1977 (PL95-217), also must apply for and obtain certification from the Alaska Department of Environmental Conservation that the discharge will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. By agreement between the U.S. Army Corps of Engineers and the Department of Environmental Conservation, application for a Department of the Army permit to discharge dredged or fill material into navigable waters under Section 404 of the Clean Water Act also may serve as application for State Water Quality Certification.

Notice is hereby given that the application for a Department of the Army Permit described in the Corps of Engineers' Public Notice No. POA-2005-1295-Q, Harrison Bay, Beaufort Sea State Water Quality Certification from the Department of Environmental Conservation.

After reviewing the application, the Department may certify that there is reasonable assurance that the activity, and any discharge that might result, will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. The Department also may deny or waive certification.

Any person desiring to comment on the project with respect to Water Quality Certification may submit written comments within 30 days of the date of the Corps of Engineer's Public Notice to:

Department of Environmental Conservation  
WQM/401 Certification  
555 Cordova Street  
Anchorage, Alaska 99501-2617  
Telephone: (907) 269-6281  
FAX: (907) 269-7508